

bending portion of a tubular passage, and said acoustic wave sensing part is installed a site under the contact surface between the valve and the valve seat.

5. The acoustic wave sensor for detecting a contact state between a
5 exhaust · intake valve and a valve seat of valve train for a vehicle engine
A according to ^{claim 1} ~~any one of claims 1 and 3~~, wherein said acoustic wave sensing part
comprises a condenser microphone for sensing the acoustic wave.

6. The acoustic wave sensor for detecting a contact state between a
10 exhaust · intake valve and a valve seat of valve train for a vehicle engine
according to claim 4, wherein a sound shielding member, where said speaker is
installed, is separately mounted to a port part for preventing the acoustic wave
from leaking.

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